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Figure 1a

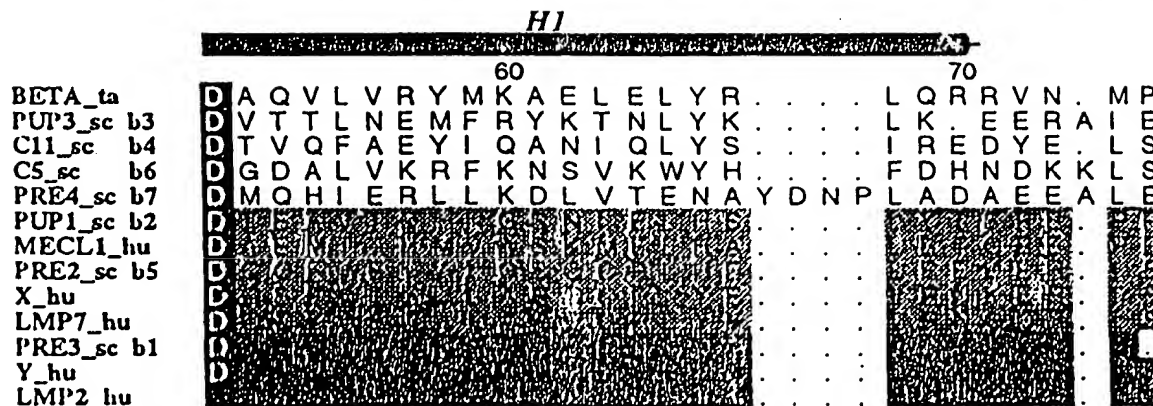
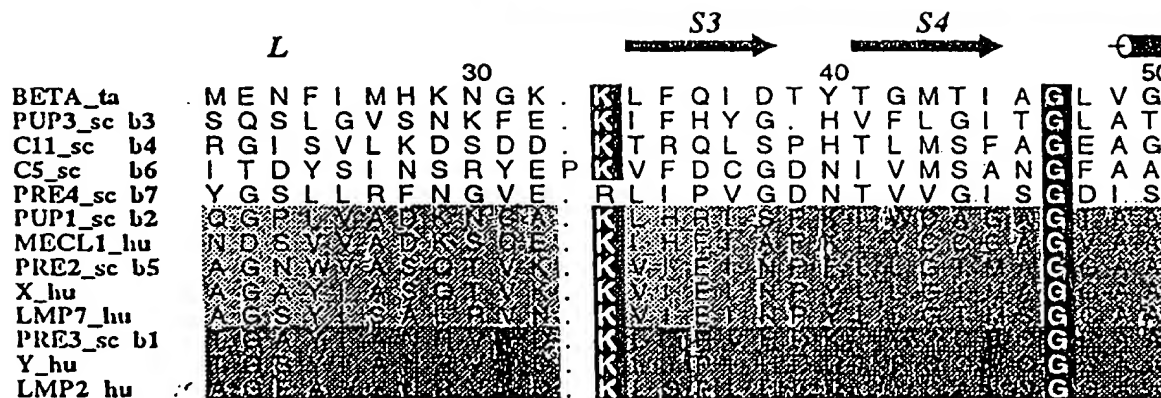
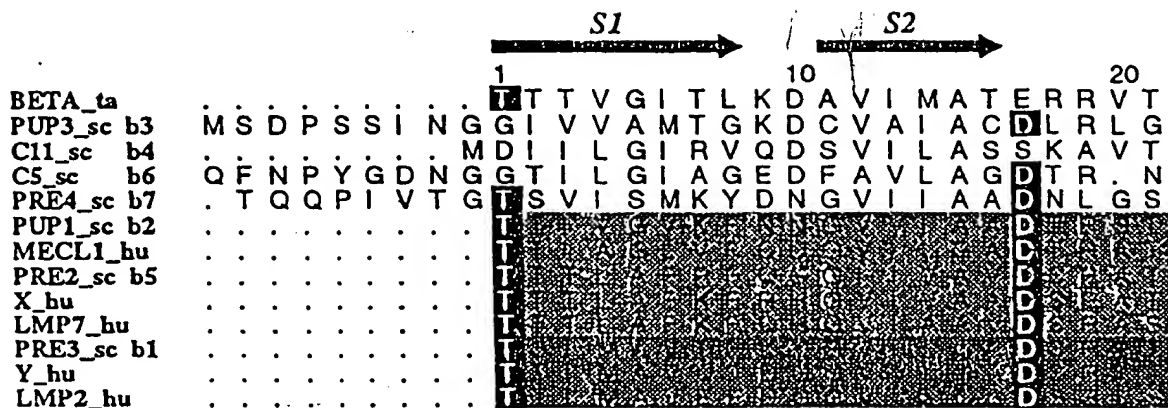


Figure 1b

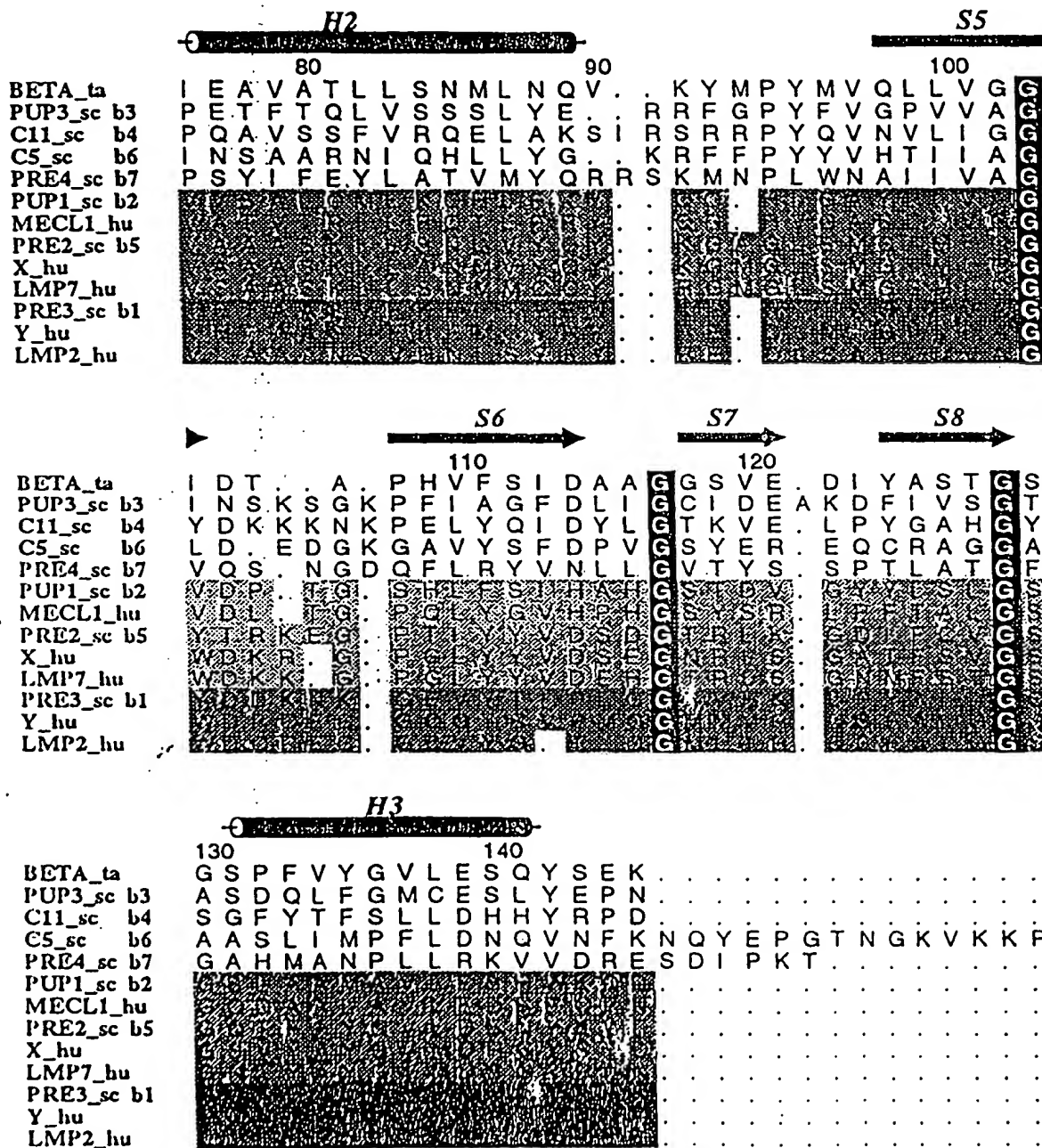


Figure 1c

**H4**

150                      160                      170

BETA_ta	...	MT	V	D	E	G	V	D	L	V	I	R	A	I	S	A	A	K	Q	R	D	S	A	S	G	G	M			
PUP3_sc b3	...	L	E	P	E	D	L	F	E	T	I	S	Q	A	L	L	N	A	A	D	R	D	A	L	S	G	W	G		
C11_sc b4	...	M	T	T	E	E	G	L	D	L	L	K	L	C	V	Q	E	L	E	K	R	M	P	M	D	F	K	G		
C5_sc b6	L	K	Y	L	S	V	E	E	V	I	K	L	V	R	D	S	F	T	S	A	T	E	R	H	I	Q	V	G	D	G
PRE4_sc b7	...	T	V	Q	V	A	E	E	A	I	V	N	A	M	R	V	L	Y	R	D	A	R	S	S	R	N				
PUP1_sc b2	...																													
MECL1_hu	...																													
PRE2_sc b5	...																													
X_hu	...																													
LMP7_hu	...																													
PRE3_sc b1	...																													
Y_hu	...																													
LMP2_hu	...																													

**S9**                      **S10**                      **H5**

180                      190                      200

BETA_ta	I	D	V	A	V	I	T	R	K	D	G	Y	V	Q	L	P	T	D	Q	I	E	S	R	I	R	K	L	G	L	I
PUP3_sc b3	A	V	V	Y	I	I	K	K	D	E	V	V	K	R	Y	L	K	M	R	Q	D	.	.	.	.	.	.	.	.	.
C11_sc b4	V	I	V	K	I	V	D	K	D	G	I	R	Q	V	D	D	F	Q	A	Q	.	.	.	.	.	.	.	.	.	
C5_sc b6	L	E	I	L	I	V	T	K	D	G	V	R	K	E	F	Y	E	L	K	R	D	.	.	.	.	.	.	.	.	
PRE4_sc b7	F	S	L	A	I	I	D	K	N	T	G	L	T	F	K	K	N	L	O	V	E	N	M	K	W	D	F	A	K	D
PUP1_sc b2	V	D	A	C	V	A	I	K	T	.	G	A	K	E	E	R	T	.	S	S	P	T	E	P	V	K	E	S	G	A
MECL1_hu	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I
PRE2_sc b5	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I
X_hu	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I
LMP7_hu	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I
PRE3_sc b1	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I
Y_hu	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I
LMP2_hu	V	N	L	Y	R	V	.	F	E	D	G	W	I	R	S	C	N	H	D	A	G	E	.	F	W	K	A	S	E	I

210                      220

BETA_ta	L	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUP3_sc b3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
C11_sc b4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
C5_sc b6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PRE4_sc b7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PUP1_sc b2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
MECL1_hu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PRE2_sc b5	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
X_hu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
PRE3_sc b1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Y_hu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
LMP2_hu	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

Figure 1d

BETA_ta	.	.	.
PUP3_sc b3	.	.	.
C11_sc b4	.	.	.
C5_sc b6	.	.	.
PRE4_sc b7	.	.	.
PUP1_sc b2	.	.	.
MECL1_hu	.	.	.
PRE2_sc b5	.	.	.
X_hu	.	.	.
LMP7_hu	.	.	.
PRE3_sc b1	.	.	.
Y_hu	.	.	.
LMP2_hu	.	.	.

09/381286 "120799

Figure 2

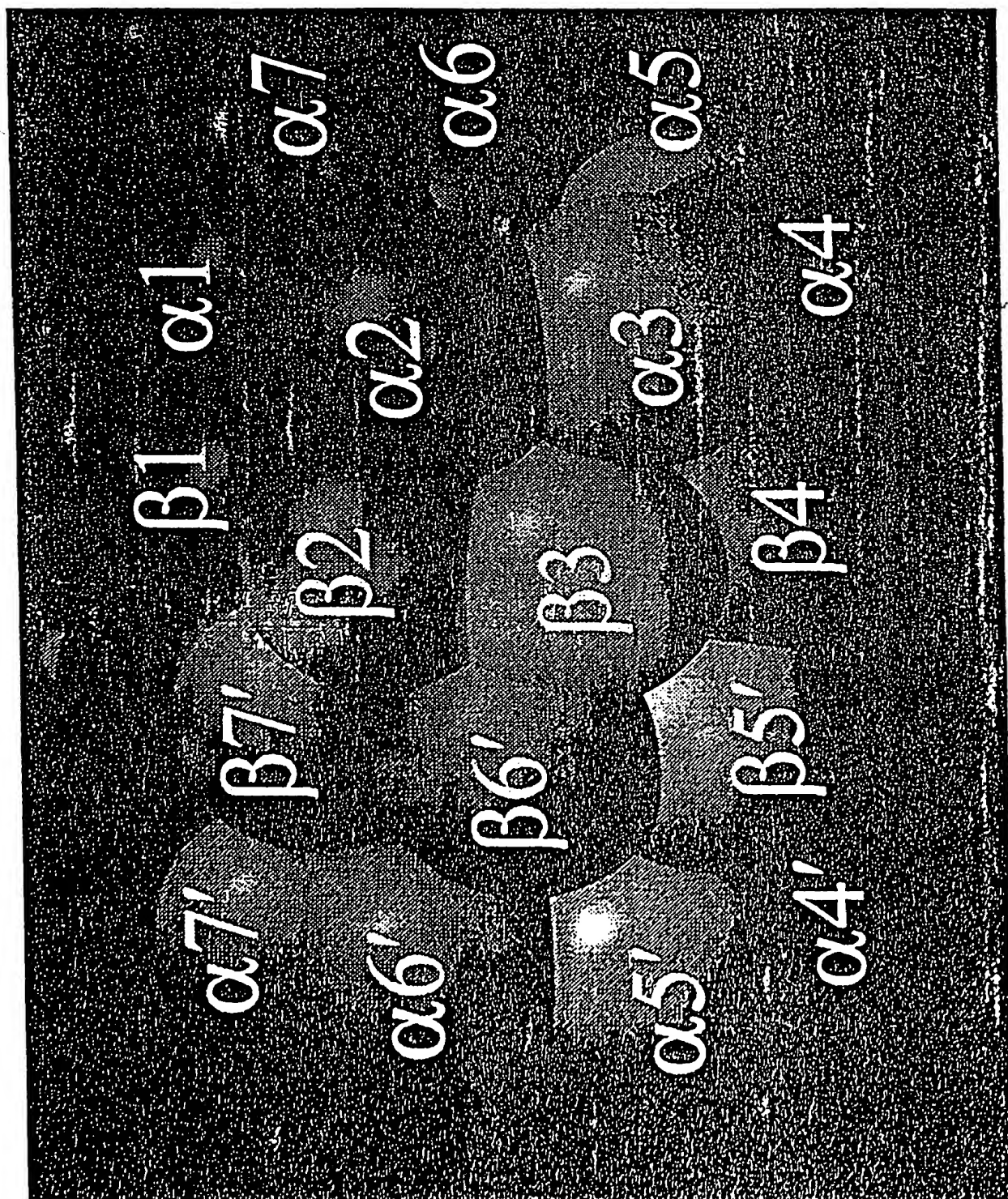


Figure 3

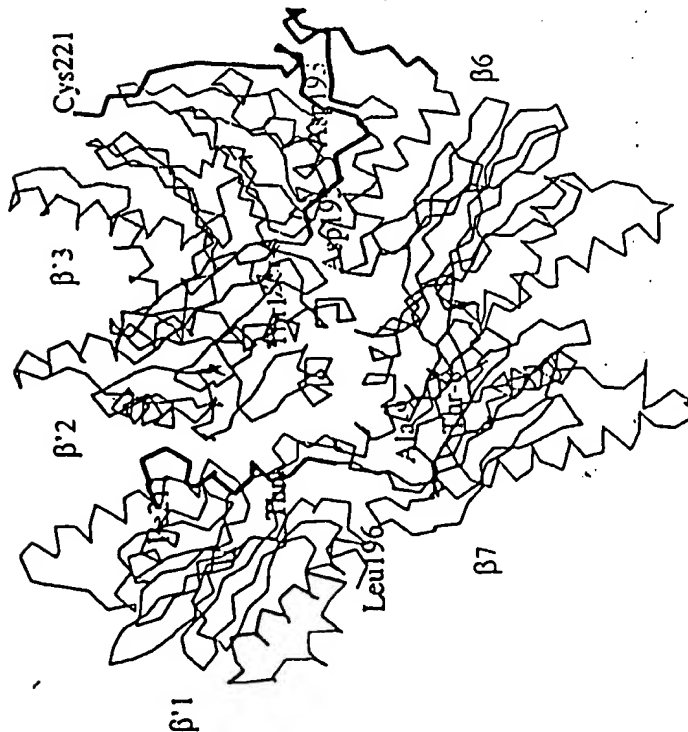
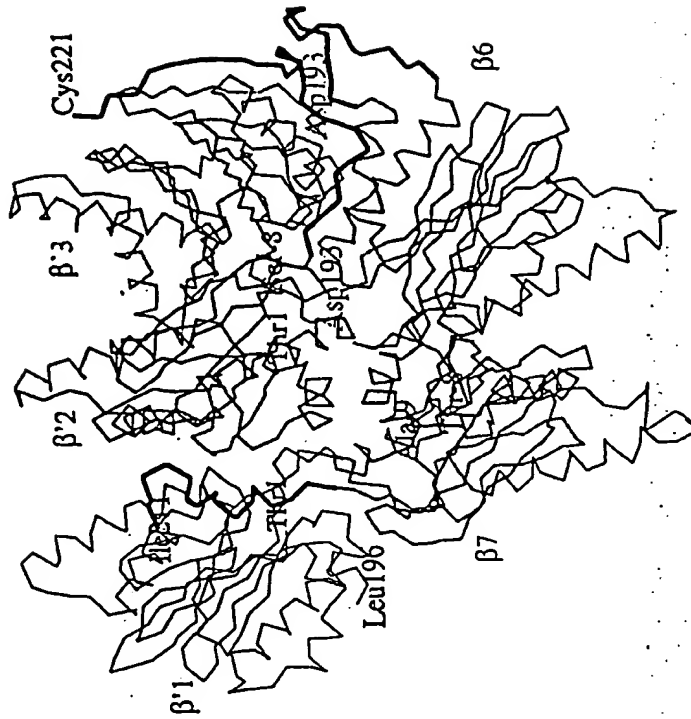


Figure 4a

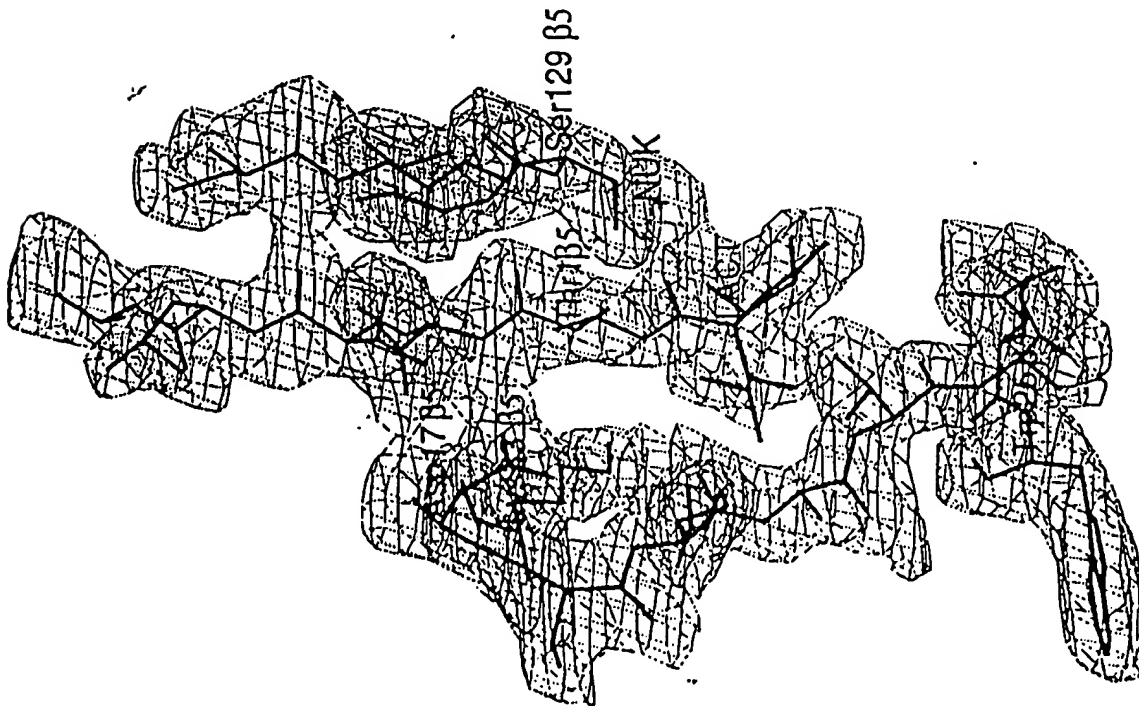
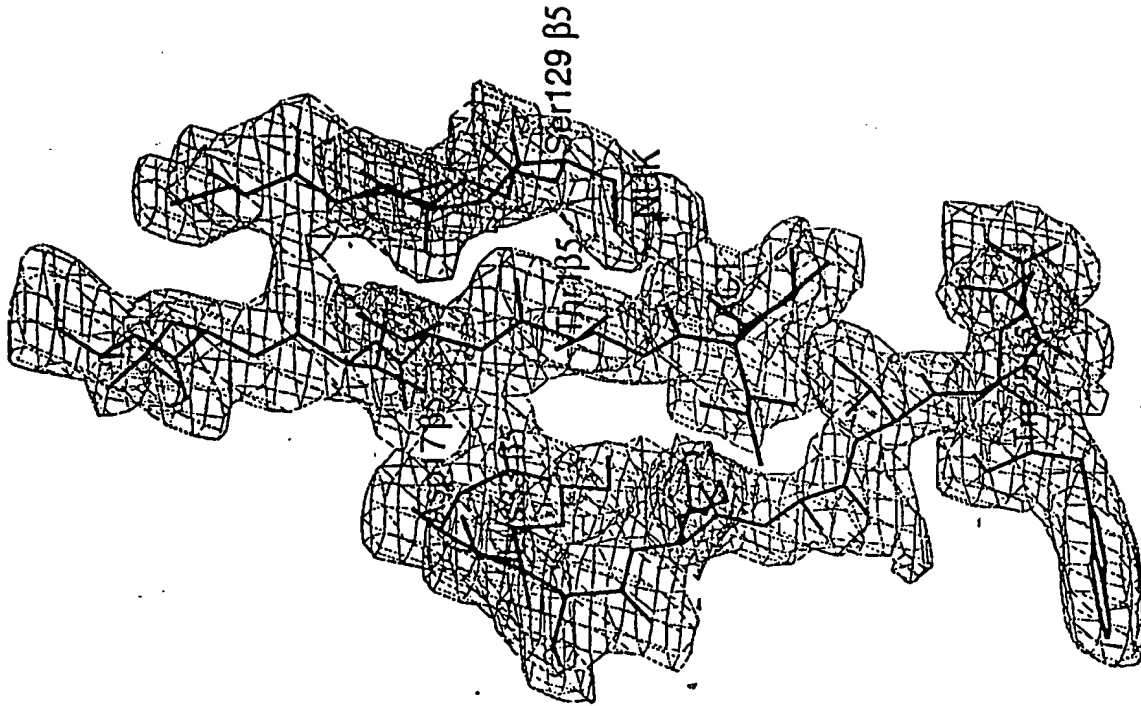




Figure 4b

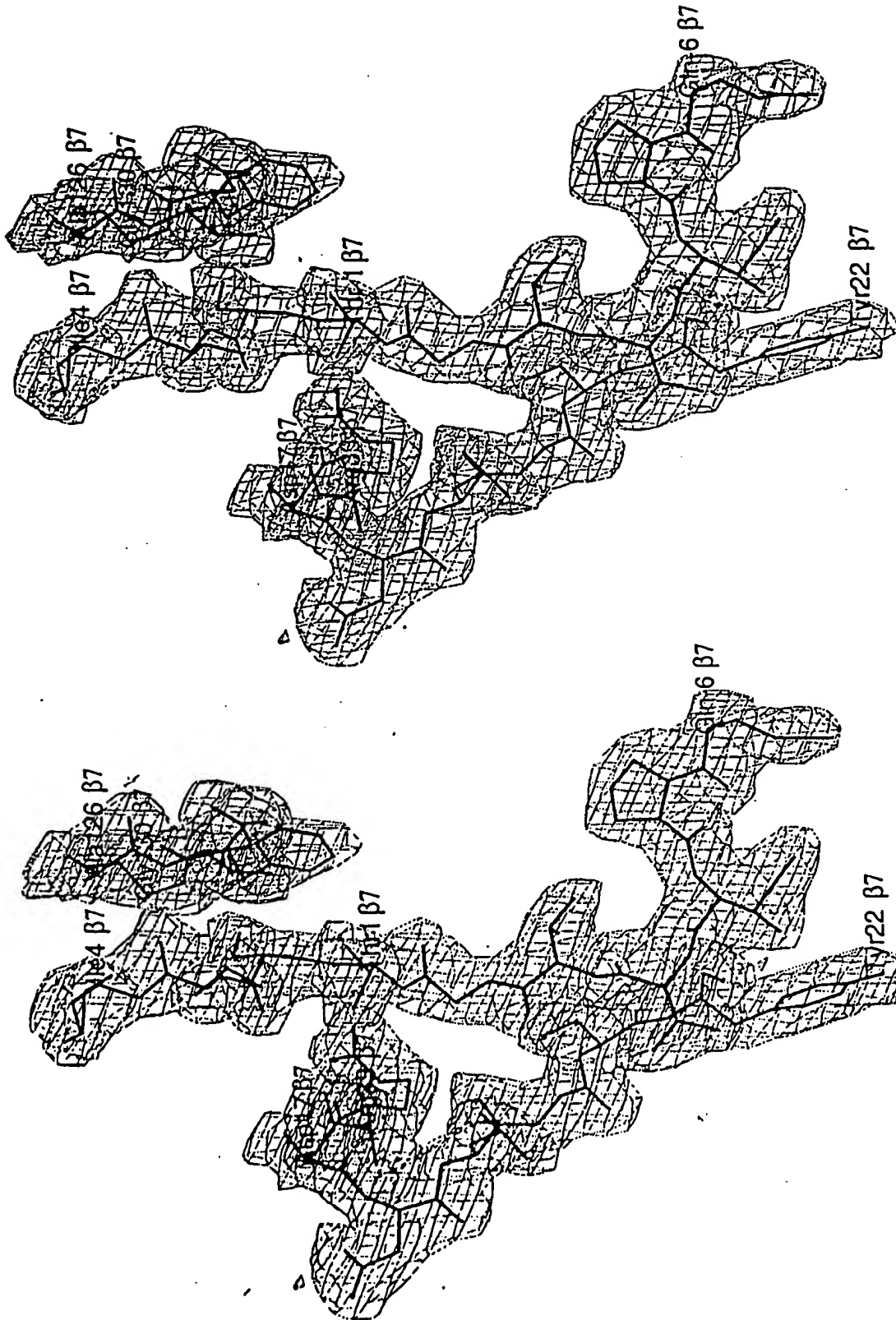




Figure 6a

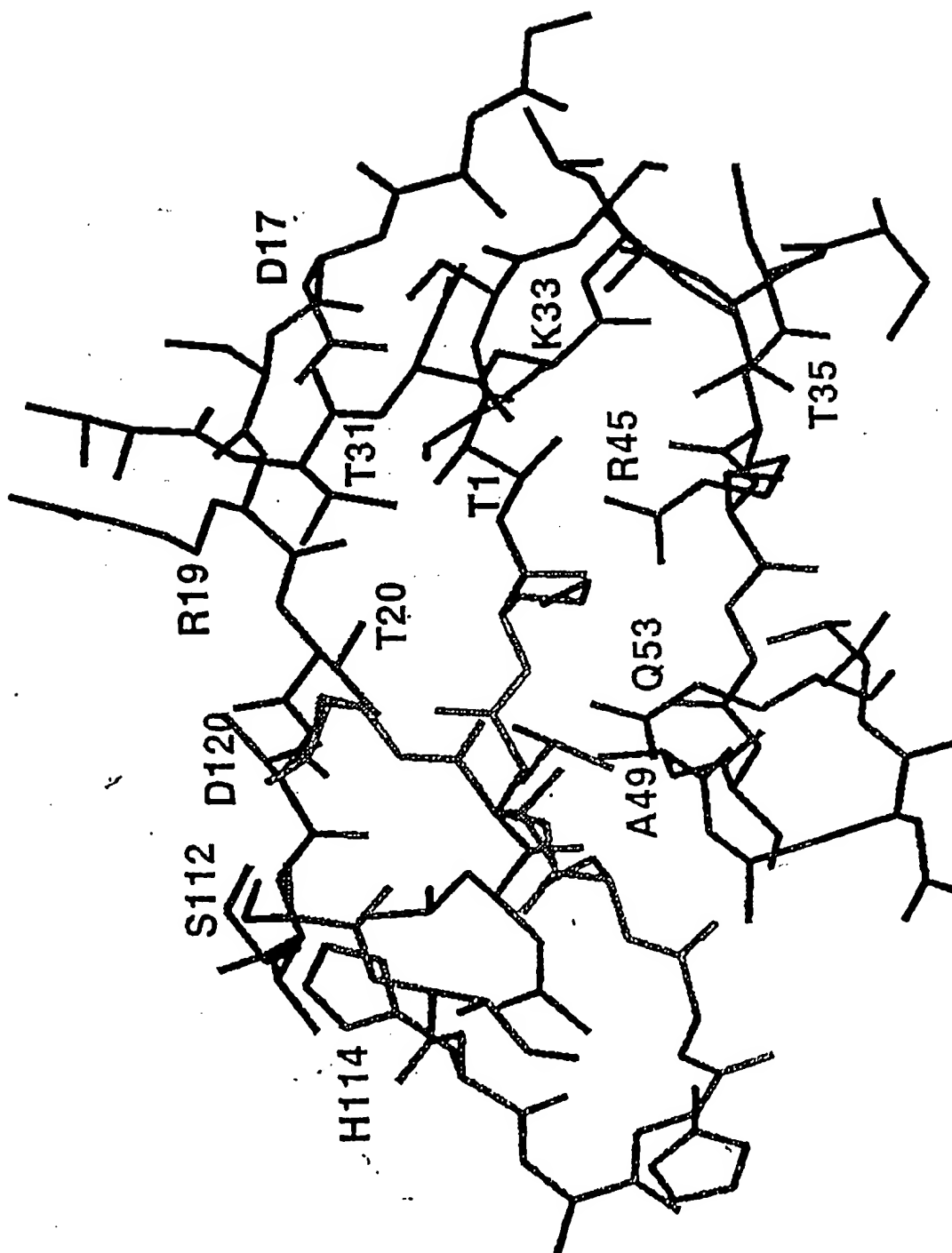


Figure 6b

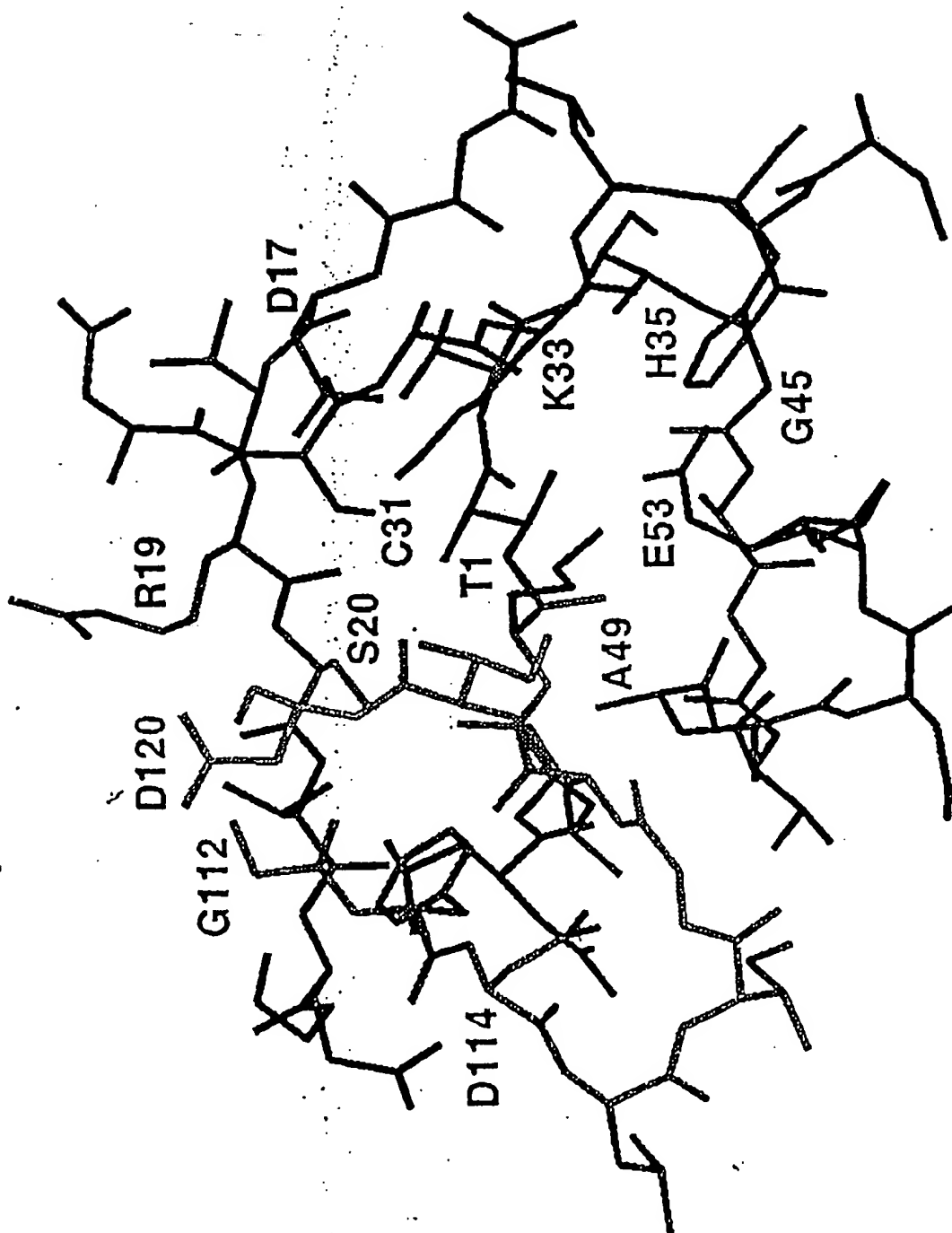


Figure 6c

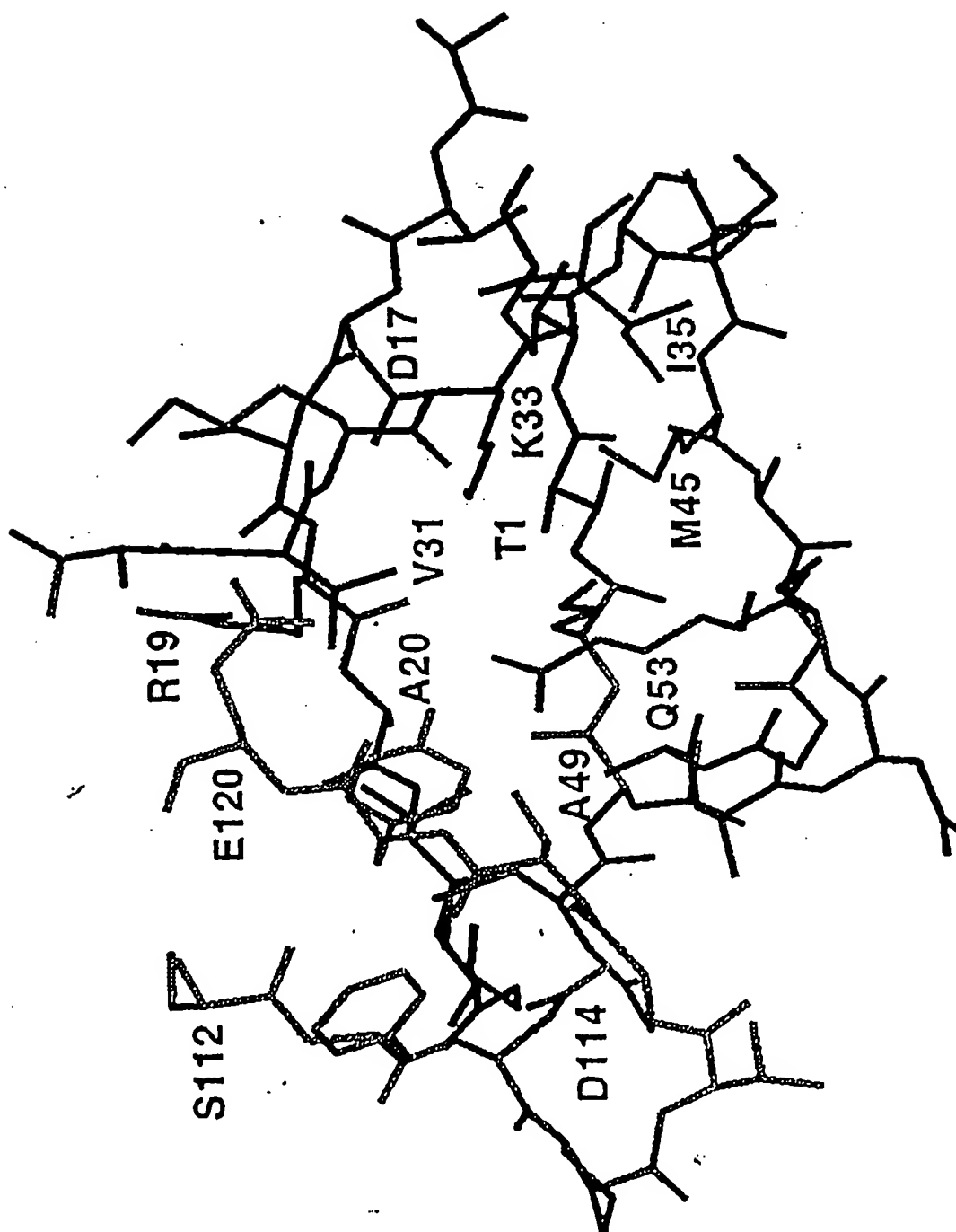


Figure 7

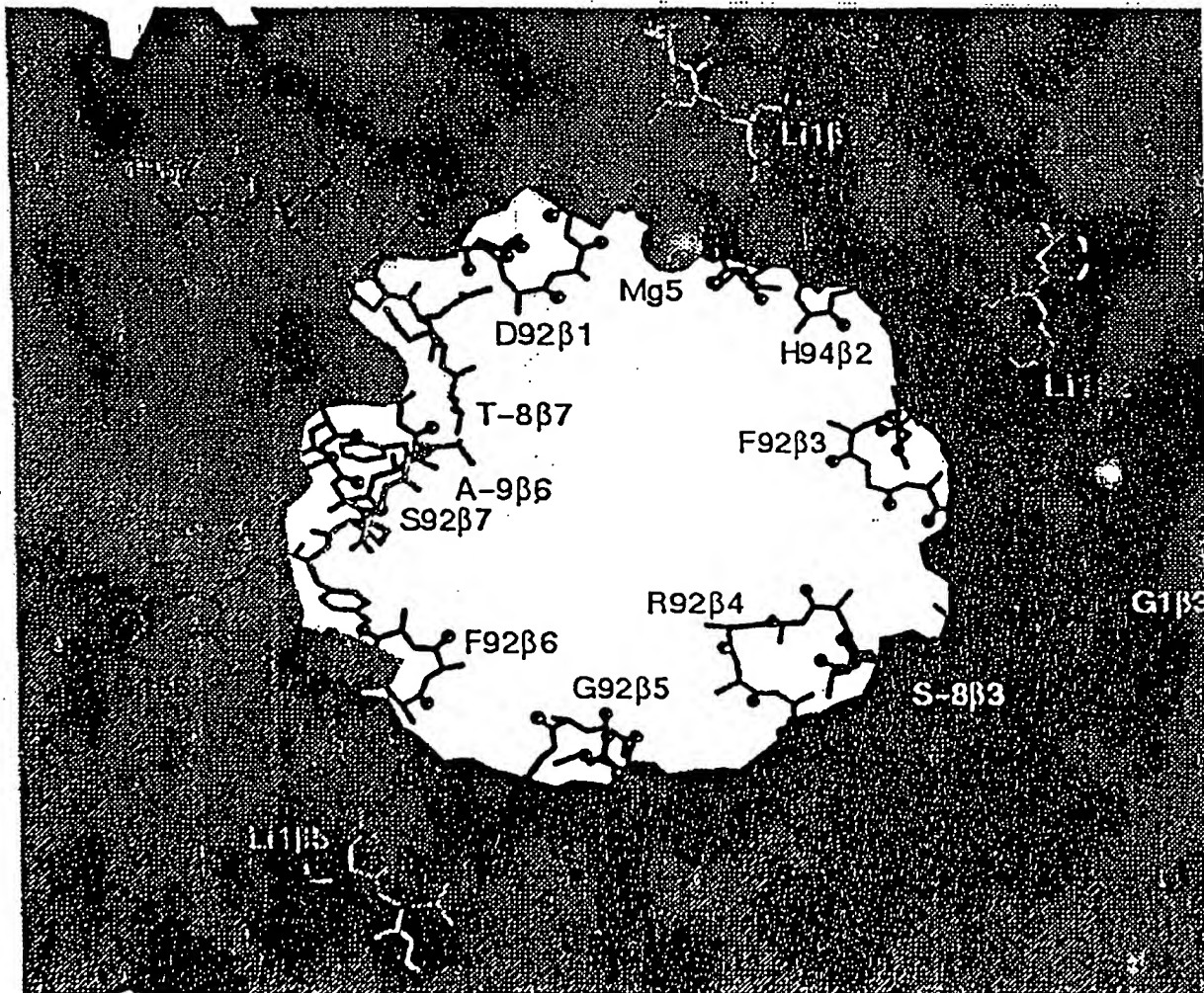


Figure 8

